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nesium, iron, manganese, and zinc groups. The greatest need for improvement in the earlier editions was in the scope of the determinative tables, which have been expanded with considerable success.

A. D. B.

Microscopical Determination of the Opaque Numerals. By JOSEPH MURDOCH. Pp. vi+165, figs. 9 (index of cuts).

A determinative key for use in connection with the metallographic microscope is provided in this book. As the first work of its kind the book has already found wide use. The fundamental basis of classification is color (of the polished surface), followed by hardness and microchemical tests. A number of so-called minerals are thought by the author to represent mixtures rather than well-defined compounds, but these, with a number of unknown minerals discovered in connection with the studies on which the key is based, are given place in the key.

The book is remarkably satisfactory for a first attempt in the field, and has already made possible the use of the metallographic microscope in colleges where no research work can be undertaken.

A. D. B.

Geologic Map of West Virginia. By I. C. WHITE, R. V. HENNEN, D. B. REGER, and R. C. TUCKER. Morgantown, W.Va.: State Geological Survey, 1917.

A revised map of the state, showing coal, oil, gas, iron ore, and limestone areas, on the scale of eight miles to the inch. A list of coal mines by counties, printed on the sheet, includes those in operation up to July, 1917, except for some that are doubtless only temporary producers. The geology of areas other than those mentioned is not shown, nor is there any stratigraphic division of the limestone areas.

A. D. B.

Economic Geology, 4th edition. By HEINRICH RIES. London: Wiley & Sons, 1916. Pp. xviii+856, figs. 291, pls. LXXV.

In the fourth edition this well-known work has been considerably expanded and materially improved, both in the treatment of topics and in the descriptions of deposits. Many illuminating figures and diagrams have been added. Among the more noteworthy changes are the expansion of the chapter on petroleum and the chapter on ore deposits, and the addition of descriptions of many of the important Canadian deposits.

As with former editions, the reviewer feels a little lack of coherence between chapters—a difficulty that is perhaps insurmountable in a text of this sort.

A. D. B.

Investigation of the Peat Bogs and Peat Industry of Canada, 1911-12. By A. V. ANREP. Department of Mines, Canada, Bull. No. 9. 1914.

A detailed report of preliminary investigation of peat bogs in the provinces of Quebec and Ontario.

Coal Fields and Coal Resources of Canada. By D. B. DOWLING. Department of Mines, Canada. Memoir 59, 1915. Pp. 174, maps 7, figs. 9.

Chiefly material reprinted from "Coal Resources of the World" compiled for the Twelfth International Geological Congress.

Coal Fields of British Columbia. By D. B. DOWLING. Department of Mines, Canada, Memoir 69, 1915. Map 1, diagrams 23. Pp. 350.

Discusses the coals of the Cretaceous and Tertiary horizons in various areas of British Columbia.

E. A. S.

British and Foreign Marbles and Other Ornamental Stones. By JOHN WATSON. Cambridge: Cambridge University Press. New York: Putnam, 1916. Pp. 485. \$1.50.

In addition to marble, numerous other ornamental stones are discussed, the most important being onyx marble, malachite, alabaster, fluorspar, quartzite, labradorite, lapis lazuli, serpentine, steatite, and jade. Includes brief description of the occurrences.

E. A. S.